

UNITED STATES PATENT AND TRADEMARK OFFICE

*Receipt*

Applicants: Thierry Valet  
 Application No: 10/040,254  
 Filed: January 4, 2002  
 Attorney Docket: 60559-301701  
 Examiner: Not Yet Assigned  
 Group Art Unit: 2173

APR 29 2002

Title: **METHOD AND APPARATUS EMPLOYING ANGLED SINGLE ACCELEROMETER SENSING MULTI-DIRECTIONAL MOTION**

COPY OF PAPERS  
 ORIGINALLY FILED

Office of Initial Patent Examination Division  
 Customer Service Center  
 Commissioner For Patents  
 Washington, D.C. 20231

**TRANSMITTAL REQUEST FOR CORRECTION OF FILING RECEIPT**

Enclosed herewith for filing in the above-identified application are the following:

- ☒ Request for Correction of Filing Receipt;
- ☒ A red-lined copy of Official Filing Receipt;
- ☒ A copy of the first page of the Utility Transmittal;
- ☒ A copy of the first page of the Patent Application; and
- ☒ Return Postcard for date-stamped return as confirmation of receipt of these items.

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The correction is not due to any error by applicant and no fee is due. However, in the event that a fee is due, the Commissioner is hereby authorized to charge any such fees to Deposit Account 02-3964.

Respectfully submitted,

Dated: April 17, 2002

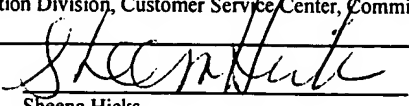
  
 Brian R. Coleman  
 Reg. No. 39,145

OPPENHEIMER WOLFF & DONNELLY LLP  
**CUSTOMER NO. 25696**  
 P.O. Box 10356  
 Palo Alto, CA 94303  
 Tel: (650) 320-4000  
 Fax: (650) 320-4100

**CERTIFICATE OF MAILING (37CFR 1.8 (a))**

I hereby certify that this paper (along with any referred to as being attached or enclosed) is being deposited on April 17, 2002 with the U.S. Postal Service as first class mail in an envelope addressed to: Office of Initial Patent Examination Division, Customer Service Center, Commissioner of Patents, Washington, D.C. 20231.

Date: April 17, 2002

  
 Sheena Hicks

UNITED STATES PATENT AND TRADEMARK OFFICE

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Examiner: Not Yet Assigned  
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REQUEST FOR CORRECTION OF FILING RECEIPT

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Sir:

Enclosed is a red-lined copy of the Filing Receipt showing the change, for the above-identified patent application, copy of the Utility Patent Application Transmittal dated January 4, 2002, copy of page one of the Specification, and evidencing the desired correction. Please reprint the Filing Receipt as follows and mail the corrected copy to the undersigned.

This application is incorrectly entered as :

**"Therry Valet "**

Please correct this application to read:

**"Thierry Valet"**

Please reprint the Filing Receipt as follows and mail the corrected copy to the undersigned.

CERTIFICATE OF MAILING (37CFR 1.8 (a))

I hereby certify that this paper (along with any referred to as being attached or enclosed) is being deposited on April 17, 2002 with the U.S. Postal Service as first class mail in an envelope addressed to: Office of Initial Patent Examination Division, Customer Service Center, Commissioner of Patents, Washington, D.C. 20231.

Date: April 17, 2002

Sheena Hicks

Application No: 10/040,254  
Filed: January 4, 2002




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\_\_\_\_\_  
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APPLICATION NUMBER	FILING DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	DRAWINGS	TOT CLAIMS	IND CLAIMS
10/040,254	01/04/2002	2173	0.00	60559-301701	7	20	4

CONFIRMATION NO. 9462

25696  
OPPENHEIMER WOLFF & DONNELLY  
P. O. BOX 10356  
PALO ALTO, CA 94303

## FILING RECEIPT



\*OC000000007447841\*

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Date Mailed: 02/08/2002

Receipt is acknowledged of this nonprovisional Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Customer Service Center. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

## Applicant(s)

Therry Valet, Sunnyvale, CA;  
THERRY VALET

Domestic Priority data as claimed by applicant

THIS APPLN CLAIMS BENEFIT OF 60/259,666 01/04/2001

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## Foreign Applications

If Required, Foreign Filing License Granted 02/08/2002

Projected Publication Date: To Be Determined - pending completion of Missing Parts

Non-Publication Request: No

Early Publication Request: No

## Title

Method and apparatus employing angled single accelerometer sensing multi-directional motion

## Preliminary Class

345

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IN THE UNITED STATES PATENT AND TRADEMARK

Box: New Patent Application  
Assistant Commissioner for Patents  
Washington, D.C. 20231

Attorney's Docket No.: 60559-301701

**FILING TRANSMITTAL**

Transmitted herewith for filing is the Patent Application of : Thierry Valet

**COPY OF PAPERS  
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For: "METHOD AND APPARATUS EMPLOYING ANGLED SINGLE  
ACCELEROMETER SENSING MULTI-DIRECTIONAL MOTION"

**ENCLOSURES**

- ☒ 12 page application including specification, claims and abstract;
- ☒ 7 sheets (Figs. 1 - 8 ) of ☒ informal/☐ formal drawings;
- ☒ A Declaration, Power of Attorney & Petition (☐ signed/☒ unsigned);
- ☒ A return postcard as proof of receipt of the referenced documents.

and

- ☐ An Assignment of the invention with an assignment cover sheet;
- ☐ Applicant claims small entity status (Under 37 CFR 1.27);
- ☐ IDS, Form PTO-1449 and copies of cited references;
- ☐ An Associate Power of Attorney;
- ☐ A certified copy of the priority document (Under 35 USC 119);
- ☐ A Power of Attorney by Assignee;

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**TYPE OF FILING**

- ☐ This application claims the benefit of an earlier filed U.S. Patent Application (35 USC 120).
- ☒ This application claims the benefit of the priority date of an earlier filed U.S. Provisional Patent Application Serial No. 60/259,666 filed on January 4, 2001(35 USC 119).
- ☒ This is an application filed pursuant to 37 CFR 1.53, permitting receipt of a filing date upon filing of specification, claims and drawings, if required, with applicant being given a period of one month from the date of notice to file the fee and oath or declaration.
- ☒ In the event any parts of this application are missing, please treat this as a filing under 37 CFR 1.53 as defined just above.

**CERTIFICATE OF MAILING (37 CFR 1.10(A))**

CERTIFICATE OF MAILING BY "EXPRESS MAIL" - Rule 10: I hereby certify that this correspondence is being deposited with the U. S. Postal Service "Express Mail Post Office to Addressee" under 37 CFR 1.10 as Express Mail No. EL745081992US addressed to the Box New Patent Application, Assistant Commissioner for Patents, Washington, D.C. 20231.

Date: January 4, 2002

*Sharyl Brown*  
Sharyl Brown



# METHOD AND APPARATUS EMPLOYING ANGLED SINGLE ACCELEROMETER SENSING MULTI-DIRECTIONAL MOTION

5

Inventor:

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Thierry Valet

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## CROSS REFERENCE TO RELATED APPLICATIONS

Reference is made and priority claimed to U.S. Provisional Application  
entitled SELECTIVE ACCESS NON-DOD DIGITAL DATA BROADCAST SYSTEM, filed  
November 30, 2001.

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## BACKGROUND OF THE INVENTION

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The present invention relates to the use and mounting of accelerometers in  
user interface devices such as PDA's. Specifically, this invention discloses mounting  
an accelerometer chip at an angle with respect to the circuit board to allow for sensing  
acceleration in more than one plane of motion. One type of device in which this  
invention may be used is in a PDA (Personal Digital Assistant).

In the last few decades, enormous progress has occurred in developing and  
perfecting interactions between humans and computer systems. Improvements in user  
interfaces along with improvements in data capacity, display flexibility, and  
communication capabilities have lead to the use of accelerometers in such interfaces.  
For example, U.S. Pat. No. 4,445,376 issued on May 1, 1984, discloses an  
arrangement in which three accelerometers supply output signals that can be  
processed to provide the specific force components and the angular rate components  
relative to each axis of a right hand Cartesian coordinate system that is fixed within a  
moving body. In this arrangement, each accelerometer is mounted so that the force  
sensitive axis of the accelerometer is parallel to an axis of the coordinate system (e.g.,  
the X axis). In addition each accelerometer is mounted (or internally configured) so  
that the force sensitive axis rotates at a uniform rate about a fixed axis which is  
parallel to and spaced apart from the force sensitive axis. As the object with which  
the coordinate system is associated moves in space, the signal that is generated by  
each accelerometer includes a component representative of specific force along the